

#101A Page 1 of 7

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RAW SEQUENCE LISTING DATE: 05/03/2001
PATENT APPLICATION: US/09/411,568 TIME: 16:07:25

DATE: 05/03/2001
TIME: 16:07:25

Input Set : A:\Inga004c.app
Output Set: N:\CRF3\05032001\I411568.raw

3 <110> APPLICANT: CONRAD, CHARLES A.
5 <120> TITLE OF INVENTION: IN VIVO PRODUCTION OF ssDNA CONTAINING DNA ENZYME
6 SEQUENCE WITH RNASE ACTIVITY
8 <130> FILE REFERENCE: INGA,004/C/CIP
10 <140> CURRENT APPLICATION NUMBER: 09/411,568
11 <141> CURRENT FILING DATE: 1999-10-04
13 <150> PRIOR APPLICATION NUMBER: 09/397,782
14 <151> PRIOR FILING DATE: 1999-09-16
16 <150> PRIOR APPLICATION NUMBER: 09/169,793
17 <151> PRIOR FILING DATE: 1998-10-09
19 <150> PRIOR APPLICATION NUMBER: 08/877,251
20 <151> PRIOR FILING DATE: 1997-06-17
22 <150> PRIOR APPLICATION NUMBER: 08/236,504
23 <151> PRIOR FILING DATE: 1994-04-29
25 <160> NUMBER OF SEQ ID NOS: 29
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 42
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
36 oligonucleotide
38 <220> FEATURE:
39 <221> NAME/KEY: modified_base
40 <222> LOCATION: (1)..(42)
41 <223> OTHER INFORMATION: "n" represents a variable nucleotide
43 <400> SEQUENCE: 1
44 nnnnnnnnnn nnrrggctag ctacaacgan nnnnnnnnnn nn 42
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 258
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
54 oligonucleotide
56 <400> SEQUENCE: 2
57 taatacgact cactataggg agacccaagc tggctagcgt ttaaacttaa gcttggtcgg 60
58 cggccttgaa gagcggccgc actcacgata gagtgggaga tgggcgcgag aaagtgcggc 120
59 cgctcttcaa ggccgcgcac cttattaag tcagcggggg atcctttttg ggggctcgtc 180
60 cgggatcggg agaccccctgg ccgctcgagt ctagaggggcc cgtttaaacc cgctgatcag 240
61 cctcgatgt gccttcta 258
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 252
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:

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70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
71   oligonucleotide
73 <400> SEQUENCE: 3
74 ccccccccg atctagactc gagcggccag gggctcccg atccggacg agcccccaa 60
75 aaggatccc cgctgactta attaaggctcg gcggccttga agagcggccg cacttctcg 120
76 cgcgcatttc ccaactatcgt gtagtgccg ccgcctttca aggccgcga ccaagcttca 180
77 ccgcggggca gggtgtggt ggttgtggt gggagcgggg gatccgatt ctgcagaatt 240
78 ctggaggag at 252
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 250
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
88   oligonucleotide
90 <400> SEQUENCE: 4
91 ggctagcggt taaacttaag cttggtcggc ggccttgaag agcggccgca ctcacgata 60
92 agtggagat gggcgcgaga aagtgcggcc gctcttcaag gccgcgcacc ttaatggtgg 120
93 ggcgcgtt gtagctagcc tcgggtggg gatcctttt ggggctcgatccggatcg 180
94 gagaccctggccgcgttgcag tctagaggcc cgtttaaac cgcgtatca gcctcgactg 240
95 tgccctctag 250
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 249
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
105   oligonucleotide
107 <400> SEQUENCE: 5
108 ggctagcggt taaacttaag cttggtcggc ggccttgaag agcggccgca ctcacgata 60
109 agtggagat gggcgcgaga aagtgcggcc gctcttcaag gccgcgcacc ttaataatgc 120
110 atgtctcggtt gtagctagcc caggcgggag atccctttt ggggctcgatccggatcg 180
111 agaccctggccgcgttgcag tctagaggcc cgtttaaac cgcgtatca gcctcgactgt 240
112 gcctctag 249
115 <210> SEQ ID NO: 6
116 <211> LENGTH: 245
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
122   oligonucleotide
124 <400> SEQUENCE: 6
125 ggctagcggt taaacttaag cttggtcggc ggccttgaag agcggccgca ctcacgata 60
126 agtggagat gggcgcgaga aagtgcggcc gctcttcaag gccgcgcacc ttaatgtatgt 120
127 aagtctgtgtt gtagctagcc cccgtatcc ttgtggggatccgtccggatccggatcg 180
128 ccctggccgcgttgcag agggcccgatccgtttaaacccgttgcgtatccgcctgtgcct 240
129 tctag 245
132 <210> SEQ ID NO: 7
133 <211> LENGTH: 281

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134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
139 oligonucleotide
141 <400> SEQUENCE: 7
142 ggcttagcggt taaacttaag cttggtcggc ggccttgaag agcggccgca ctacatcgat 60
143 agtggggat gggcgcgaga aagtgcggcc gcttcaag gccggccacc ttaatagatg 120
144 gagactcggtt gtagctagcc cccttgaggc cagattggcg cccgaacagg gacttgaagg 180
145 agatcccttt tgggggctcg tccggatcg ggagaccctt ggccgctcgat gtctagaggg 240
146 ccgtttaaa cccgctgatc agcctcgact gtgccttcta g 281
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 149
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
156 oligonucleotide
158 <400> SEQUENCE: 8
159 agcttggtcg gcggcccttga agagcggccg cactcacat agagtggag atggcgca 60
160 gaaagtgcgg ccgtcttca aggcccccga ctttaattaa gtcagccccgatccctttt 120
161 gggggctcgat ccggatcgag gagaccctt 149
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 148
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
171 oligonucleotide
173 <400> SEQUENCE: 9
174 ggccagggggt ctcccgatcc cggacgagcc cccaaaaagg atcccccgat gacttaatta 60
175 aggtcgccgg ccttgaagag cggccgcact ttctcgcccatctccac tctatcgat 120
176 gtgcggccgc tcttcaaggc cgccgacc 148
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 30
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
186 oligonucleotide
188 <400> SEQUENCE: 10
189 gatgttaagtc gttgttagcta gcctccctg 30
192 <210> SEQ ID NO: 11
193 <211> LENGTH: 36
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
199 oligonucleotide

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Input Set : A:\Inga004c.app
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201 <400> SEQUENCE: 11
202 gatccagggg aggcttagcta caacgactta catcat 36
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 35
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
212 oligonucleotide
214 <400> SEQUENCE: 12
215 ggtgggcgcc tcgtttagc tagcctcggt gtggg 35
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 41
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
225 oligonucleotide
227 <400> SEQUENCE: 13
228 gatccccaca ccgaggctag ctacaacgag gcgcacca t 41
231 <210> SEQ ID NO: 14
232 <211> LENGTH: 34
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
238 oligonucleotide
240 <400> SEQUENCE: 14
241 aatgcattgc tcgtttagc tagccaggc ggaa 34
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 40
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
251 oligonucleotide
253 <400> SEQUENCE: 15
254 gatccccgc ctgggctagc tacaacgaga catgcattat 40
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 66
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
264 oligonucleotide
266 <400> SEQUENCE: 16
267 agatggagac tcgtttagc tagccccctt gagggcagat tggcgcccgaa acagggactt 60
268 gaagga 66
271 <210> SEQ ID NO: 17

RAW SEQUENCE LISTING
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Input Set : A:\Inga004c.app
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272 <211> LENGTH: 72
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
278 oligonucleotide
280 <400> SEQUENCE: 17
281 gatctcccttc aagtccctgt tcgggcgccca atctgccctc aagggggcta gctacaacga 60
282 gtctccatct at 72
285 <210> SEQ ID NO: 18
286 <211> LENGTH: 27
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
292 oligonucleotide
294 <400> SEQUENCE: 18
295 ccggatctag accgcaagct tcaccgc 27
298 <210> SEQ ID NO: 19
299 <211> LENGTH: 21
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
305 oligonucleotide
307 <400> SEQUENCE: 19
308 ggtgaagctt gcgggtctaga t 21
311 <210> SEQ ID NO: 20
312 <211> LENGTH: 32
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
318 oligonucleotide
320 <400> SEQUENCE: 20
321 gggatcagga gctcagatca tgggaccaa gg 32
324 <210> SEQ ID NO: 21
325 <211> LENGTH: 24
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
331 oligonucleotide
333 <400> SEQUENCE: 21
334 ctttgtcaca agctttgcag gtct 24
337 <210> SEQ ID NO: 22
338 <211> LENGTH: 18
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/411,568

DATE: 05/03/2001

TIME: 16:07:26

Input Set : A:\Inga004c.app

Output Set: N:\CRF3\05032001\I411568.raw

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1